

CLAIMS:

1. A method for producing hydrophobic silica fine powder, comprising the steps of pyrolyzing a silane compound to form
5 a silica fine powder and hydrophobizing the silica fine powder with an organohalosilane in a fluidization vessel; wherein hydrophobized silica fine powder which flies out of the fluidization vessel is collected with a cyclone and bag filter held at a temperature of 100 to 500°C.
- 10 2. The method of claim 1 in which the fluidization vessel includes a hydrophobizing section where the silica fine powder is hydrophobized and a deacidifying section where deacidification is carried out following hydrophobization,
15 and deacidification is carried out in the deacidifying section by adding 0.1 to 1 vol % of water to a fluidizing gas.
3. An apparatus for producing hydrophobic silica fine
20 powder, comprising:
a means for pyrolyzing a silane compound to form silica fine powder,
a means for agglomerating the silica fine powder,
a first cyclone and a first filter for collecting the
25 agglomerated silica fine powder,
a fluidization vessel having a hydrophobizing section for hydrophobizing the collected silica fine powder, and
a second cyclone and a second filter for collecting
hydrophobic silica fine powder which flies out of the
30 fluidization vessel, which second cyclone and second filter can each be held at a temperature of 100 to 500°C.